

REPORT

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50X1-HUM

DATE OF
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SUPPLEMENT TO
REPORT NO.

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INFORMATION ON POWER SUPPLY IN EAST GERMANY

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As a result of the reorganization of the power industry in East Germany the spring of 1948, the Main Load Dispatcher's office became Main Department in the Main Administration for Power for the German Economic Commission on 1 1948, in conformity with the importance of its functions. The load dispatch offices of the Laender were combined with those of the districts as a result the establishment of five zonal people-owned power districts.

On 17 June, a conference was held on the general power situation, in which Land load dispatchers, power supervisors of the Laender, and representatives of the Soviet Military Administration participated. The structure of each district's various consumer priority ratings, and the output possibilities were discussed. It is the task of all load dispatchers to raise as much as possible the number of hours of utilization of the maximum peak, thereby increasing the output of kilowatt-hours without increasing the peak load.

On 29 October the Land load dispatchers and representatives of the Soviet Military Administration participated in another load dispatchers' conference at the Main Administration for Power. Organizational matters involved in load dispatching and problems of breakdown in the power pool network were dealt with.

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A considerable increase in the East German power industry was confirmed for all months of 1948, and it was stated that it has been possible to maintain the frequency, in general, within the prescribed limits, between 49 and 50.5 cycles per second. The requirements for electric power throughout East Germany must be covered equally, insofar as possible, and all possibilities for increasing power consumption in the afternoon and night hours must be utilized.

Management

1. General

During 1948, the supply situation was considerably better than in previous years. The output was increased in all districts except the South Power District (Thuringen), and the frequency was, in general, maintained between 49 and 50.5 cycles per second. The improvement in the power supply may be seen from a comparison of the frequency curves for mid-October 1946, 1947, and 1948. In 1946, interruptions under 45 cycles per second could not be avoided, whereas in 1948 the frequency very seldom went below 49 cycles. The peak load for the power pool network in December 1948 was 2,015 megawatts, an increase of 213 megawatts, or 12 percent, over the 1947 figure of 1,802 megawatts.

A centralized winter supply plan was initiated by the German Economic Commission at the end of 1948 to avoid the possibility of long switch-offs in the winter, and to increase the night load through relocations, whereby the duration of utilization of the peak output is also increased.

The 1948 power balance for East Germany, including Berlin, was as follows (in millions of kilowatt-hours):

Production of power plants in the power pool network	13,140.226 (planned production was 11,767.200)
Delivery to Western Zone	338.736
Delivery to Poland and Czechoslovakia	84.633
Total deliveries	423.369
Production minus deliveries	12,716.857
Power supplied by Western Zone	112.622
Total consumption	12,829.479

2. Power Pool Operation

The power pool operation of the high-tension network between the various power districts in East Germany was, in general, maintained. At times the whole of Bavaria and Austria were connected in parallel via the 220-kilovolt power line, so that the power pool network extended from the Baltic Sea to the Alps. Reductions in output through interruptions in the various power districts were partly compensated for by timely action by the load dispatchers.

3. Power Pool Network

To safeguard the power pool, several 100-kilovolt power lines were erected in the North and East Power Districts and the 100-kilovolt Geltow transformer station, with a 30-kilovolt line, was constructed to guarantee the supply for Potsdam. In addition, construction of the second system of the 100-kilovolt Straussberg-Finow-Liebenwalde line was started.

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Interruptions in Power Pool Network

The power pool network still requires large-scale improvements to avoid at least some of the interruptions in power supply. In case of interruptions, it is the task of the load dispatcher to re-establish the power supply as quickly as possible.

Expansion of Technical Installations of Main Load Dispatch Offices

The technical operating installations of the main load dispatch offices were further developed and improved during 1948. The operational telecommunications network was improved by establishing a carrier frequency connection between the transformer station and the Magdeburg power plant and a connection between the Weimar Land load dispatcher and the Dieskau-Remptendorf carrier frequency contact, and by putting into operation a direct connection between the Main Load Dispatcher and the load dispatcher of the East Power District. During 1948, teletype service was established between the Main Load Dispatcher and the Land load dispatchers of the individual power districts, so that all important instructions, the power balances and output schedules of the power plants, and the statistical data can now be transmitted by teleprinter.

OUTPUT AND CONSUMPTION OF POWER DISTRICTS

Berlin, 3 January 1950

According to the daily report of the Main Load Dispatcher, the total output of all power plants consolidated in the power pool network, including Berlin, was as follows:

	<u>Kw-h (approx)</u>
1946	10,000,000,000
1947	11,200,000,000
1948	13,100,000,000
1949	15,200,000,000 (16 percent increase over 1948)

As in 1948, the maximum daily output for 1949 was achieved on 23 December, with 51.4 million kilowatt-hours, and a nonsimultaneous peak of 2,521 megawatts.

Some of the large power plants attained new maximum outputs during the period 21 - 31 December 1949: Bitterfeld, 177 megawatts; Zschornowitz, 172 megawatts; Boehlen, 146 megawatts; and Hirschfelde, 130 megawatts.

Output and consumption was as follows:

Center Power District

Maximum power output	6,479,000 kilowatt-hours, on 30 December 1949
Maximum power consumption	3,026,000 kilowatt-hours, on 23 December 1949
Maximum peak production, nonsimultaneous	314 megawatts, on 31 December 1949

The Center Power District includes the Zschornowitz, Harbke, and Magdeburg power plants.

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Berlin Power District

Maximum power consumption	6,637,000 kilowatt-hours, on 23 December 1949
Peak load	393.4 megawatts, on 23 December 1949

The Berlin Power District includes the Klingenberg and Rummelsburg power plants.

North Power District

Maximum power consumption	5,700,000 kilowatt-hours, on 23 December 1949
Peak load	305 megawatts, on 24 December 1949

The North Power District includes the Lauta, Finkenheerd, and Peenemuende power plants.

East Power District

Maximum power consumption	15,157,000 kilowatt-hours, on 22 December 1949
Peak load	718 megawatts, on 21 December 1949

The East Power District includes the Boehlen, Espenhain, Hirschfelde, Leipzig-Nord, Kulkwitz, and Plessa power plants.

South Power District

Maximum power consumption	3,114,000 kilowatt-hours, on 22 December 1949
Peak load	166.2 megawatts, on 21 December 1949

The South Power District includes the Breitungen, Gispersleben, Erfurt, and Bleiloch power plants.

West Power District

Maximum power consumption	4,587,000 kilowatt-hours, on 23 December 1949
Peak load	228.5 megawatts, on 21 December 1949

The West Power District includes the Gross-Kayna, Gross-Leopold, and Rudolph Breitscheidt power plants.

Chemical Plants

Maximum power output	12,905,000 kilowatt-hours on 21 December 1949
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Main Load Dispatcher
Main Administration for Power
German Economic Commission

Berlin, 16 June 1949

Output of Power Plants in East Germany
(in megawatts)

	1	2	3	4	5
	Acc to Power Bal of 12 Jun 1949	Acc to Repair Plan 2d Qu 1949	Diff (Col 1-Col 2)	Acc to Production Plan 2d Qu 1949	Diff (Col 1-Col 4)
<u>Center Power</u>					
<u>District</u>					
Zachornewitz	130	130	--	122.5	+7.5
Harbke	105	110	-5	115	-10
Magdeburg	20	20	--	21	-1
Total	225	260	-5	258.5	-3.5
<u>Berlin Power</u>					
<u>District</u>					
Klingenberg	70	70	--	70	--
Rummersburg	50	40	+10	30	+20
Other plants	65	65	--	78	-13
Total	185	175	+10	178	+7
<u>North Power</u>					
<u>District</u>					
Bramov	0	0	--	0	--
Peenemuende	13	0	+13	9.5	+3.5
Stralsund	0	0	--	6	-6
Wolgast	2	2.5	-0.5	2.5	-0.5
Lauta	52	61	-9	52	--
Finkenheerd	45	44	+1	46	-1
Finow	0	0	--	17.5	-17.5
Potsdam	7	6.5	+0.5	8	-1
Wittenberge	0	0	--	0	--
Small plants	4	4	--	4	--
Total	123	118	+5	145.5	-22.5
<u>East Power</u>					
<u>District</u>					
Boehlen	110	100	+10	113	-3
Espenhain	195	200	-5	200	-5
Hirschfelde	92	95	-3	94	-2
Kuikwitz	35	35	--	35	--
Plessa	12	12	--	12	--
Chemnitz	24	25	-1	25	-1
Dresden	15	16	-1	9	+6
Leipzig-Nord	21	24	-3	24	-3

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	1	2	3	4	5
	Acc to Power Bal of 12 Jun 1949	Acc to Repair Plan 2d Qu 1949	Diff (Col 1-Col 2)	Acc to Production Plan 2d Qu 1949	Diff (Col 1-Col 4)
Leipzig-Sued	7	7	--	7.5	-0.5
Zwickau	7	8	-1	8.5	-1.5
Bublag	15	6	+9	16.8	-1.8
Lauchhammer	3	3	--	9.5	-6.5
Brigitta	1	4	-3	5.2	-4.2
Small plants	28	29	+10	28	--
Peak plants*	11	--	--	11	--
Total	576	564	+12	598.5	-22.5
<u>South Power District</u>					
Breitungen	33	28	+5	35	-2
Gispersleben	14	14	--	17	-3
Erfurt	20	16	+4	15	+5
Rositz	6	5	+1	5.1	+0.9
Gera	3.5	8.5	-5	2.5	+1
Auma	1.5	1	+0.5	1.6	-0.1
Hohenwarte	2.5	0	+2.5	3	-0.5
Probstzella	1.5	2	-0.5	1.2	+0.3
Gertrudschacht	3	3	--	7.1	-4.1
Small plants	2	3	-1	3	-1
Total	87	80.5	+6.5	90.5	-3.5
Bleiloch	40	40	--	20	+20
Total	127	120.5	+6.5	110.5	+16.5
<u>West Power District</u>					
Gross Kayna	32	28	+4	37	-5
Gross Leopold	34	35	-1	38	-4
Bleicherode	9	10	-1	8	+1
Alten	1	0	+1	5.5	-4.5
Gardelagen	0	0	--	0	--
Wehag	18	20	-2	21.5	-3.5
Luetzkendorf	10	19.8	-9.8	13.5	-3.5
Weissenfels	2.2	0.7	1.5	2.1	0.1
Total	106.2	113.5	-7.3	125.6	-19.4
<u>Chemical Plants</u>					
Bitterfeld	145	125	+20	121	-4
Schkopau	95	95	--	120	-25
Leuna	105	95	+10	105	--
Wolfen-Film	32	28	+4	36	-4
Wolfen-Farben	21	20	+1	24	-3
Deuben	24	20	+4	34	-10
Nachterstedt	35	30	+5	40	-5
Theissen	8	10	-2	20	-12
Amsdorf	2.5	3	-0.5	0	+2.5
Elise II	2	4	-2	3	-1
Total	469.5	430	+39.5	523	-53.5

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	1	2	3	4	5
	Acc to Power Bal of 12 Jun 1949	Acc to Repair Plan 2d Qu 1949	Diff (Col 1-Col 2)	Acc to Production Plan 2d Qu 1949	Diff (Col 1-Col 4)
<u>Totals</u>					
Center Power District	255	260	-5	258.5	-3.5
Berlin Power District	185	175	+10	178	+7
North Power District	123	118	+5	145.5	-22.5
East Power District	576	564	+12	598.5	-22.5
South Power District	127	120.5	+6.5	110.5	+16.5
West Power District	106.2	113.5	-7.3	125.6	-19.4
Chemical plants	469.5	430	+39.5	523	-53.5
Total	1,841.7	1,781	+60.7	1,939.6	-97.9

* Plants put into operation only during periods of peak demand.

Simultaneous Maximum Loads of Power Plants in
the Power Pool Network
(in megawatts)

Month	1947 *	1948	1949
Jan	1,410	1,782	2,101
Feb	1,340	1,861	2,082
Mar	1,490	1,801	2,087
Apr	1,470	1,814	1,912
May	1,485	1,710	1,913
Jun	1,450	1,602	1,943
Jul	1,485	1,556	1,946
Aug	1,500	1,747	2,024
Sep	1,460	1,729	2,051
Oct	1,510	1,922	2,165
Nov	1,730	2,011	2,312
Dec	1,810	2,015	2,353

* Figures for 1947 are approximate, since they were taken from a graph.

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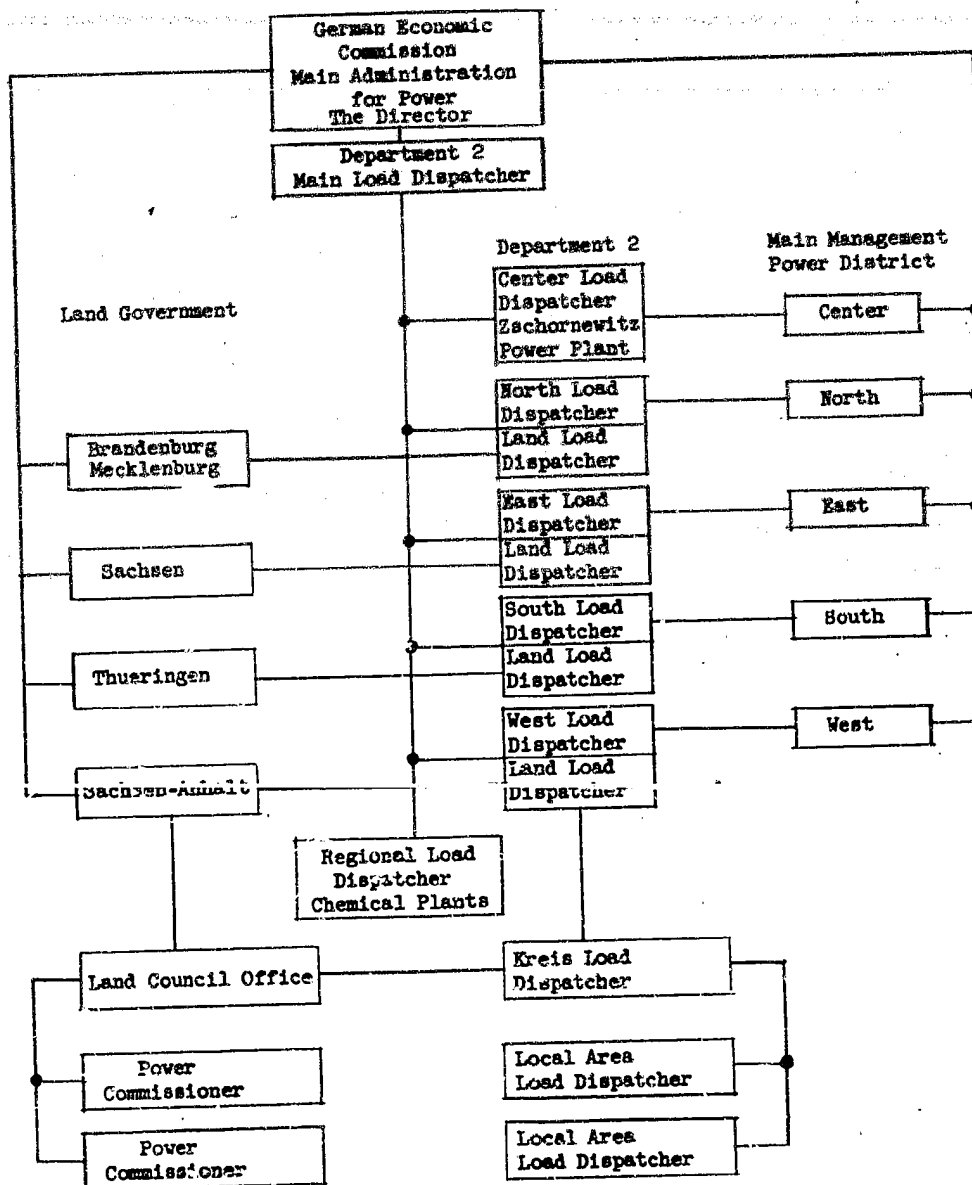
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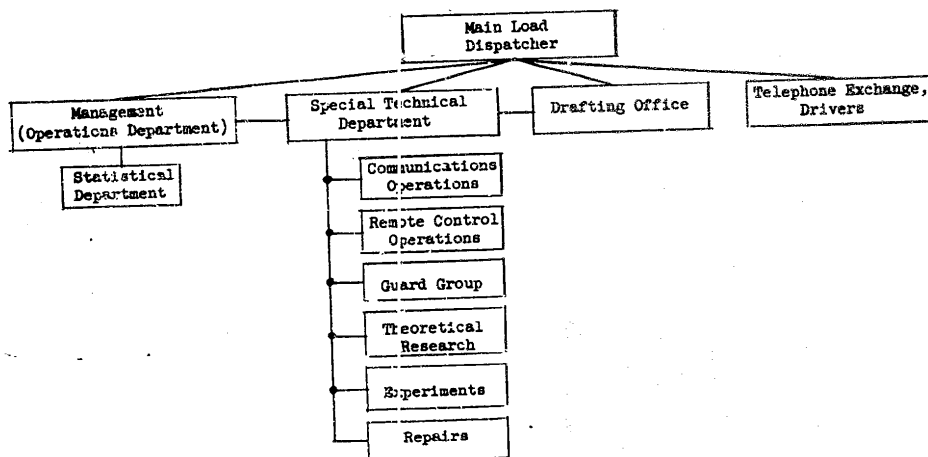
ORGANIZATION CHART
OF THE
LOAD DISPATCH SYSTEM IN EAST GERMANY

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ORGANIZATION CHART
OF THE
LOAD DISPATCHER SYSTEM IN EAST GERMANY



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